Multifunction Calibrator of alternating and direct voltage and current



The C101F Calibrator enables generating direct (DC) and alternating (AC) voltages up to 1100V in five subranges 0.1-1-10-100-1000V, DC and AC currents up to 20.5A in five subranges 0.001-0.01-0.1-1-10A (the C101FC option up to 100A AC). Frequency of alternating signals may be chosen from values 50Hz (synchronized with power supply frequency), 60Hz, 400Hz or can be programmed in range 45.00...2000Hz. Output signal can be set by means of external keyboard or by standard interface RS232C from PC computers.

The C101F Calibrator is characterised by high accuracy, high output power, small dimensions and light weight.

C101F

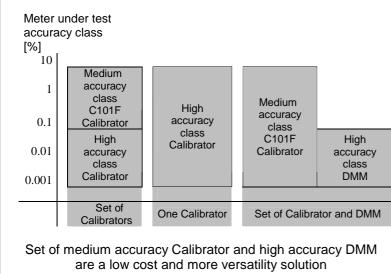
C100F DC and AC Voltage and Current Multifunction Calibrator

- Voltage source up to 1100V
- Current source up to 20A
- Small dimensions and light weight 13kg
- High output power
- Option C101FC with 100A AC subrange
- Option C101FB with 40VA power at 20A AC/DC
- Interface RS232C
- Software Calpro 101
- Certificate of Calibration

Parameter		Range										
		100mV	1V	10V	100V	1000V	1mA	10mA	100mA	1A	10A	
Resolution		100nV	1μV	10µV	100μV	1mV	1nA	10nA	100nA	1μΑ	10μΑ	
Settings range		1 205mV	0.01 2.05V	0.1 20.5V	1 205V	10 1100V	0.01 2.05mA	0.1 20.5mA	1 205mA	0.01 1.1A	0.1 20.5A	
$[\pm\% \text{ of set value and } _$	DC	0.03 +0.005						0.02 +0.003			0.03 +0.003	
	AC	0.05 +0.005+50µV						0.05 +0.005+0.5μA				
Maximum load		20mA 110		0mA	150mA	20mA		1'	1V		1V@20A 2V@10A	
Frequency		DC; 50Hz synchronized with power supply; 60±0.01Hz and 400±0.1Hz 45.0099.99±0.01Hz, 100.0999.9±0.1Hz, 10002000±1Hz										
Temperature coefficient		±0.1 of uncertainty value / 1℃ in environment temperature +5+18℃ and +28+40 ℃										
Weight and dimensions Power supply		13kg and 478 (width)x194 (height)x342 (depth) mm 230V ±10% / 4565Hz / 120VA (C101F) / 200VA (C101FB, C101FC)										
		e value for frequency 2kHz, typically. CAL PARAMETERS OF C101FB AND C101FC CAL C101FB Option with increased output power. Connection of coil (100 turns Ø2.0) to calibrator's output enables checking clamp ammeters up to 1000A						IBRATORS C101FC Option with increased output power and additional 100A AC range				
1	00V	200mA						200mA				
Maximum load of range	000V	30mA						30mA				
	10A	2V@20A and 4V@10A						2V@20A and 4V@10A				
Settings r	ange							1100.0000A				
Range Resolution 100A AC Uncertainty *) Maximum load								100μΑ				
								0.2% of setting+0.05% of range 0.5V@100A and 0.8V@50A				
*) Absolute Uncertain ambient temperature, 500Hz-linear rise up to	ty with power	supply volt	tage and lo	ad regulation	on in referer			ds,12th m	onths sta	bility, influ	uences of	
				ca	lmet Ltd.							
Poland,		172 Zielona	,		,	+48 68 32						
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TECHNICAL PARAMETERS OF C101F CALIBRATOR

How do you choose calibration set for testing voltage and current meters?



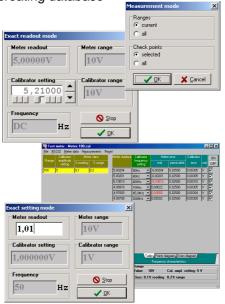
SOFTWARE CALPRO 101



 simulation of calibrator's keyboard by means of PC computer



 computer-aided analog and digital devices testing – measurement procedures, editing tables of measurements with automatic errors calculation of testing devices, creating database



• graphical visualisation of measurments in the form of tables and various charts





C101FB and C101FC Calibrators have increased output power to control the coils in order to check clamps and clamp meters up to 1000A DC and AC.

